

*March*

1631

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/067,638B

DATE: 02/23/2000  
TIME: 01:16:35

INPUT SET: S34814.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

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SEQUENCE LISTING

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(1) General Information:

(i) APPLICANTS: Lex M. Cowser  
Brenda F. Baker  
John McNeil  
Susan M. Freier  
Henri M. Sasmor  
Douglas G. Brooks  
Cara Ohashi  
Jacqueline R. Wyatt  
Alexander Borchers  
Timothy A. Vickers

(ii) Title of Invention: Identification of Genetic  
Targets for Modulation By Oligonucleotides and  
Generation of Oligonucleotides for Gene  
Modulation

(iii) NUMBER OF SEQUENCES: 112

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: WOODCOCK WASHBURN KURTZ  
MACKIEWICZ & NORRIS LLP  
(B) STREET: 1 LIBERTY PLACE 46TH FLOOR  
(C) CITY: PHILADELPHIA  
(D) STATE: PA  
(E) COUNTRY: USA  
(F) ZIP: 19103

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB  
(B) COMPUTER: IBM  
(C) OPERATING SYSTEM: PC-Windows NT  
(D) SOFTWARE: WORD PERFECT 6.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/067,638  
(B) FILING DATE: 28-APR-1998  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 60/081,483  
(B) FILING DATE: 13-APR-1998

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/067,638BDATE: 02/23/2000  
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INPUT SET: S34814.raw

47 (viii) ATTORNEY/AGENT INFORMATION:  
48 (A) NAME: John W. Caldwell  
49 (B) REGISTRATION NUMBER: 28,937  
50 (C) REFERENCE/DOCKET NUMBER: ISIS-2960  
51  
52 (ix) TELECOMMUNICATION INFORMATION:  
53 (A) TELEPHONE: (215) 568-3100  
54 (B) TELEFAX: (215) 568-3439  
55  
56  
57 (2) INFORMATION FOR SEQ ID NO:1:  
58 (i) SEQUENCE CHARACTERISTICS:  
59 (A) LENGTH: 18  
60 (B) TYPE: nucleic acid  
61 (C) STRANDEDNESS: single  
62 (D) TOPOLOGY: linear  
63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
64 CCAGGCGGCA GGACCACT 18  
65  
66 (2) INFORMATION FOR SEQ ID NO:2:  
67 (i) SEQUENCE CHARACTERISTICS:  
68 (A) LENGTH: 18  
69 (B) TYPE: nucleic acid  
70 (C) STRANDEDNESS: single  
71 (D) TOPOLOGY: linear  
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
73 GACCAGGCGG CAGGACCA 18  
74  
75 (2) INFORMATION FOR SEQ ID NO:3:  
76 (i) SEQUENCE CHARACTERISTICS:  
77 (A) LENGTH: 18  
78 (B) TYPE: nucleic acid  
79 (C) STRANDEDNESS: single  
80 (D) TOPOLOGY: linear  
81 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
82 AGGTGAGACC AGGCGGCA 18  
83  
84 (2) INFORMATION FOR SEQ ID NO:4:  
85 (i) SEQUENCE CHARACTERISTICS:  
86 (A) LENGTH: 18  
87 (B) TYPE: nucleic acid  
88 (C) STRANDEDNESS: single  
89 (D) TOPOLOGY: linear  
90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
91 CAGAGGCAGA CGAACCAT 18  
92  
93 (2) INFORMATION FOR SEQ ID NO:5:  
94 (i) SEQUENCE CHARACTERISTICS:  
95 (A) LENGTH: 18  
96 (B) TYPE: nucleic acid  
97 (C) STRANDEDNESS: single  
98 (D) TOPOLOGY: linear  
99 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

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PATENT APPLICATION US/09/067,638BDATE: 02/23/2000  
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100 GCAGAGGCAG ACGAACCA 18  
101  
102 (2) INFORMATION FOR SEQ ID NO:6:  
103 (i) SEQUENCE CHARACTERISTICS:  
104 (A) LENGTH: 18  
105 (B) TYPE: nucleic acid  
106 (C) STRANDEDNESS: single  
107 (D) TOPOLOGY: linear  
108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
109 GCAAGCAGCC CCAGAGGA 18  
110  
111  
112 (2) INFORMATION FOR SEQ ID NO:7:  
113 (i) SEQUENCE CHARACTERISTICS:  
114 (A) LENGTH: 18  
115 (B) TYPE: nucleic acid  
116 (C) STRANDEDNESS: single  
117 (D) TOPOLOGY: linear  
118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
119 GGTCAGCAA GCAGCCCCA 18  
120  
121 (2) INFORMATION FOR SEQ ID NO:8:  
122 (i) SEQUENCE CHARACTERISTICS:  
123 (A) LENGTH: 18  
124 (B) TYPE: nucleic acid  
125 (C) STRANDEDNESS: single  
126 (D) TOPOLOGY: linear  
127 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
128 GACAGCGGTC AGCAAGCA 18  
129  
130 (2) INFORMATION FOR SEQ ID NO:9:  
131 (i) SEQUENCE CHARACTERISTICS:  
132 (A) LENGTH: 18  
133 (B) TYPE: nucleic acid  
134 (C) STRANDEDNESS: single  
135 (D) TOPOLOGY: linear  
136 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
137 GATGGACAGC GGTCAGCA 18  
138  
139 (2) INFORMATION FOR SEQ ID NO:10:  
140 (i) SEQUENCE CHARACTERISTICS:  
141 (A) LENGTH: 18  
142 (B) TYPE: nucleic acid  
143 (C) STRANDEDNESS: single  
144 (D) TOPOLOGY: linear  
145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
146 TCTGGATGGA CAGCGGTC 18  
147  
148 (2) INFORMATION FOR SEQ ID NO:11:  
149 (i) SEQUENCE CHARACTERISTICS:  
150 (A) LENGTH: 18  
151 (B) TYPE: nucleic acid  
152 (C) STRANDEDNESS: single

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153 (D) TOPOLOGY: linear  
154 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
155 GGTGGTTCTG GATGGACA 18  
156  
157 (2) INFORMATION FOR SEQ ID NO:12:  
158 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
159 (B) TYPE: nucleic acid  
160 (C) STRANDEDNESS: single  
161 (D) TOPOLOGY: linear  
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
163 GTGGGTGGTT CTGGATGG 18  
164  
165  
166  
167 (2) INFORMATION FOR SEQ ID NO:13:  
168 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
169 (B) TYPE: nucleic acid  
170 (C) STRANDEDNESS: single  
171 (D) TOPOLOGY: linear  
172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
173 GCAGTGGGTG GTTCTGGA 18  
174  
175  
176 (2) INFORMATION FOR SEQ ID NO:14:  
177 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
178 (B) TYPE: nucleic acid  
179 (C) STRANDEDNESS: single  
180 (D) TOPOLOGY: linear  
181 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
182 CACAAAGAAC AGCACTGA 18  
183  
184  
185 (2) INFORMATION FOR SEQ ID NO:15:  
186 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
187 (B) TYPE: nucleic acid  
188 (C) STRANDEDNESS: single  
189 (D) TOPOLOGY: linear  
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
191 CTGGCACAAA GAACAGCA 18  
192  
193  
194 (2) INFORMATION FOR SEQ ID NO:16:  
195 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
196 (B) TYPE: nucleic acid  
197 (C) STRANDEDNESS: single  
198 (D) TOPOLOGY: linear  
199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
200 TCCTGGCTGG CACAAAGA 18  
201  
202  
203 (2) INFORMATION FOR SEQ ID NO:17:  
204 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
205

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206 (B) TYPE: nucleic acid  
207 (C) STRANDEDNESS: single  
208 (D) TOPOLOGY: linear  
209 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
210 CTGTCCTGGC TGGCACA 18  
211  
212 (2) INFORMATION FOR SEQ ID NO:18:  
213 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
214 (B) TYPE: nucleic acid  
215 (C) STRANDEDNESS: single  
216 (D) TOPOLOGY: linear  
217 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:  
218 CTCACCAGTT TCTGTCCT 18  
219  
220 (2) INFORMATION FOR SEQ ID NO:19:  
221 (i) SEQUENCE CHARACTERISTICS:  
222 (A) LENGTH: 18  
223 (B) TYPE: nucleic acid  
224 (C) STRANDEDNESS: single  
225 (D) TOPOLOGY: linear  
226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
227 TCACTCACCA GTTTCTGT 18  
228  
229 (2) INFORMATION FOR SEQ ID NO:20:  
230 (i) SEQUENCE CHARACTERISTICS:  
231 (A) LENGTH: 18  
232 (B) TYPE: nucleic acid  
233 (C) STRANDEDNESS: single  
234 (D) TOPOLOGY: linear  
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
236 GTGCAGTCAC TCACCACT 18  
237 (2) INFORMATION FOR SEQ ID NO:21:  
238 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
239 (B) TYPE: nucleic acid  
240 (C) STRANDEDNESS: single  
241 (D) TOPOLOGY: linear  
242 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
243 ACTCTGTGCA GTCACTCA 18  
244  
245 (2) INFORMATION FOR SEQ ID NO:22:  
246 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
247 (B) TYPE: nucleic acid  
248 (C) STRANDEDNESS: single  
249 (D) TOPOLOGY: linear  
250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
251 CAGTGAATC TGTGCACT 18  
252  
253 (2) INFORMATION FOR SEQ ID NO:23:  
254 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18  
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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/067,638B**

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Line

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Original Text